### FIG. 1(b)

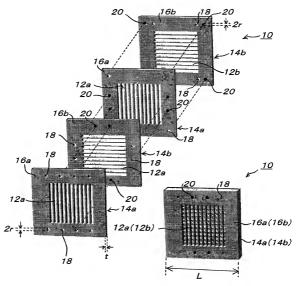
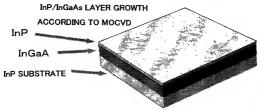
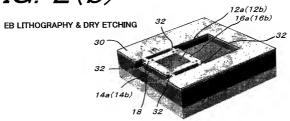


FIG. 1(a)

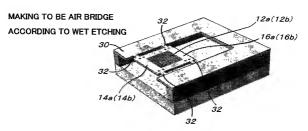


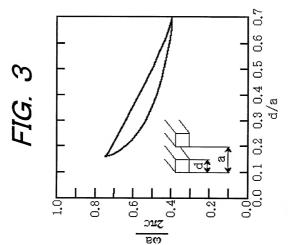




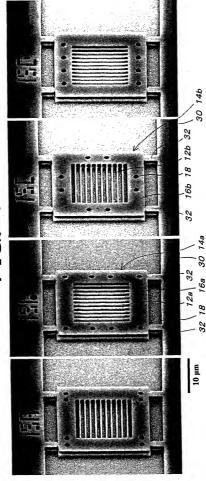


### FIG. 2(c)

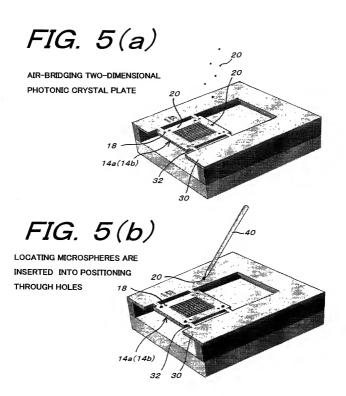




AND REGION WHERE BANDGAP OF 4 MICRON BAND OPENS IN CASE WHEN InP PLATE RELATIONSHIP BETWEEN RATIO OF WIDHT OF BLOCK AND ITS PERIOD, THICKNESS IS 0.5 MICROMETER



TWO-DIMENSIONAL PHOTONIC CRYSTAL PLATES EACH HELD BY NARROW FOUR BRIDGES IN MIDAIR



### FIG. 6(a)

PATTERN IS TRANSFERRED DOWN

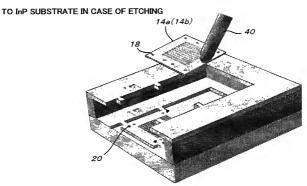
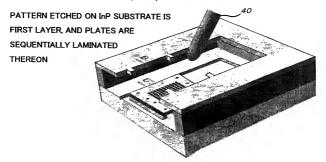
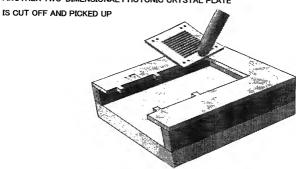


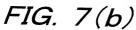
FIG. 6(b)



### FIG. 7(a)

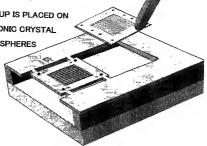
ANOTHER TWO-DIMENSIONAL PHOTONIC CRYSTAL PLATE





THE PLATE THUS PICKED UP IS PLACED ON TWO-DIMENSIONAL PHOTONIC CRYSTAL PLATE INTO WHICH MICROSPHERES

HAVE BEEN INSERTED



### FIG. 8(a)

SPHERES ARE INSERTED INTO POSITIONING HOLES IN PATTERNS TRANSFERRED ON Inp Substrate

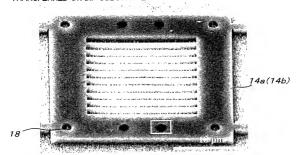
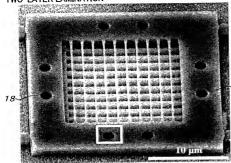


FIG. 8(b)



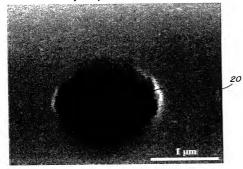
### FIG. 9(a)





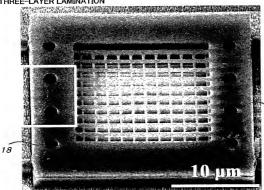
14a(14b)

FIG. 9(b)



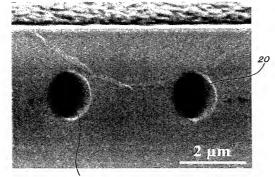
### FIG. 10(a)

THREE-LAYER LAMINATION

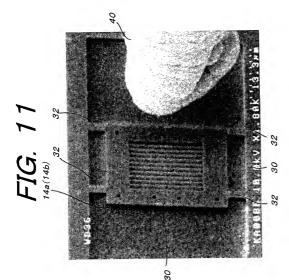


14a(14b)

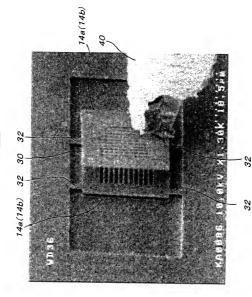
FIG. 10(b)



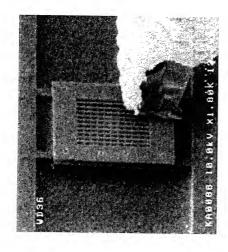
20



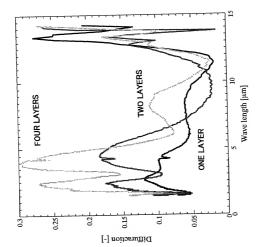
STATE WHEREIN BRIDGES ARE PUSHED BY PROBE
TO GUT OFF TWO-DIMENSIONAL PHOTONIC CRYSTAL
PLATE FROM OUTER HULL REGION OF SUBSTRATE



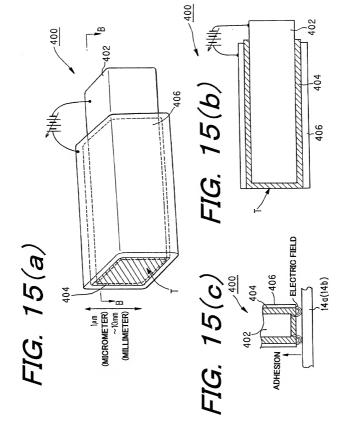
STATE WHEREIN TWO-DIMENSIONAL PHOTONIC CRYSTAL PLATE WHICH HAD BEEN CUT OFF AND HAS BEEN PICKED UP BY PROBE IS BROUGHT ON TWO-DIMENSIONAL PHOTONIC CRYSTAL PLATE INTO WHICH POSITIONING MICROSPHERES HAVE BEEN ALREADY INSERTED

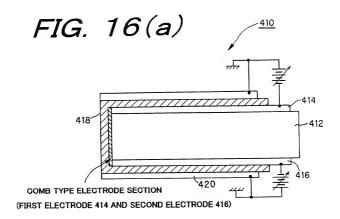


STATE WHEREIN TWO-DIMENSIONAL PHOTONIC GRYSTAL PLATES HAVE BEEN SUBSTANTIALLY PERFECTLY SUPERPOSED

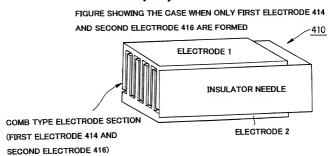


REFLECTION SPECTRA OF THREE-DIMENSIONAL PHOTONIC CRYSTAL



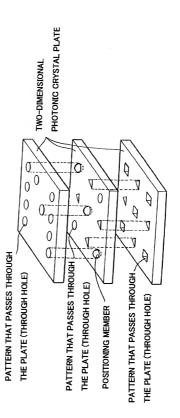


#### FIG. 16(b)



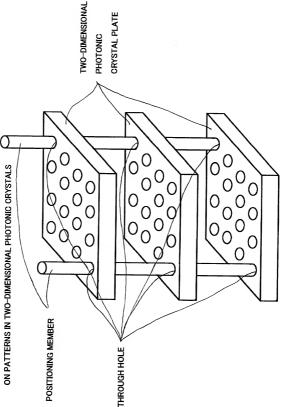
# FIG. 17(a)

CASE WHERE A PART OF PATTERNS IN TWO-DIMENSIONAL PHOTONIC CRYSTAL IS USED TO CONDUCT POSITIONING

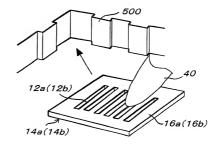


## FIG. 17(b)

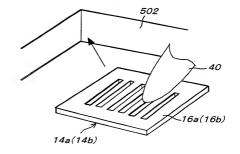
CASE WHERE POSITIONING IS CONDUCTED BY USING THROUGH HOLES DEFINED ON PATTERNS IN TWO-DIMENSIONAL PHOTONIC CRYSTALS



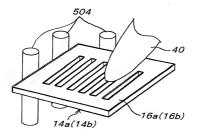
### FIG. 18(a)



### FIG. 18(b)



### FIG. 18(c)



### FIG. 18(d)

